



-J04588

INSTRUCTIONS

REV. 2008-11-17

ROAD TECH ZUMO GLOBAL POSITIONING SYSTEM (GPS) FAIRING MOUNTING KIT

GENERAL

Kit Number

92366-08

Models

This kit is required when using a Road Tech™ Zumo™ GPS unit on specific model motorcycles.

For model fitment information, see the P&A retail catalog or the Parts and Accessories section of www.harley-davidson.com (English only).

Additional Parts Required

A Road Tech Zumo GPS System Kit, part number 92357-08 is required. This item is available from a Harley-Davidson dealer.

If the wires of circuit [29B] are already in use, a black-wire multiple accessory harness (part number 70458-05) and an orange/white-wire multiple accessory harness (part number 70459-05) will need to be purchased. These items are available from a Harley-Davidson dealer.

For FLHT standard models without radio: See the P&A retail catalog or the Parts and Accessories section of www.harley-davidson.com (English only) for a selection of Genuine Motor Accessory ear bud speakers, helmet headsets or radio receiver options that will allow use of the turn-by-turn voice instruction feature of the Road Tech Zumo, or the XM satellite radio capability (available separately).

Service Manual Required

WARNING

The rider's safety depends upon the correct installation of this kit. Use the appropriate service manual procedures. If the procedure is not within your capabilities or you do not have the correct tools, have a Harley-Davidson dealer perform the installation. Improper installation of this kit could result in death or serious injury. (00333a)

NOTE

This instruction sheet references service manual information. A service manual for this model motorcycle is required for this installation and is available from a Harley-Davidson dealer.

Electrical Overload

CAUTION

It is possible to overload your motorcycle's charging system by adding too many electrical accessories. If your combined electrical accessories operating at any one time consume more electrical current than your vehicle's charging system can produce, the electrical consumption can discharge the battery and cause vehicle electrical system damage. See a Harley-Davidson dealer for advice about the amount of current consumed by additional electrical accessories, or for necessary wiring changes. (00211b)

WARNING

When installing any electrical accessory, be certain not to exceed the maximum amperage rating of the fuse or circuit breaker protecting the affected circuit being modified. Exceeding the maximum amperage can lead to electrical failures, which could result in death or serious injury. (00310a)

The Road Tech Zumo requires up to **1.08A** additional current from the electrical system.

Kit Contents

See Figure 4 and Table 1.

INSTALLATION

NOTE

Do not use solvent-based chemicals or waxes directly on the plastic or rubber components as they can affect the overall performance and appearance of the plastic and rubber.

Installing the Mounting Bracket

1. Refer to the service manual and follow the instructions given to remove the main fuse.
2. Remove the outer fairing and windshield. Refer to the service manual.

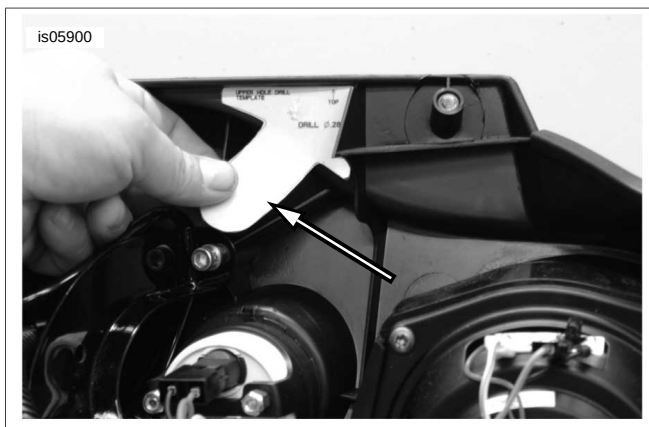


Figure 1. Road Tech Zumo Drilling Template Placement

3. See Figure 1. Obtain the drilling template from the kit.
4. Position the template on the back side of the inner fairing, in the upper left corner above the fuel gauge, aligning the template to the top of the inner fairing and the plastic rib as shown.
5. Drill a 9/32 inch (7 mm) diameter hole through the inner fairing per the template.
6. See Figure 4. Position the gasket (2) and GPS mount (1) onto the face of the inner fairing, aligning the upper hole in the mount with the hole drilled in the previous step.
7. Temporarily install one of the screws (4) through the upper hole to help align the GPS mount.
Mark the location of the lower mounting hole on the face of the inner fairing, using the GPS mount and gasket as a template. Mark the location of the wire routing hole using the guide hole (S) in the gasket as a template.
8. Remove the screw, GPS mount and gasket from the inner fairing.
9. Drill a 9/32 inch (7 mm) diameter hole through the inner fairing in the lower mounting location.
Drill an 11/16 (17 mm) diameter hole through the inner fairing in the wire routing location.

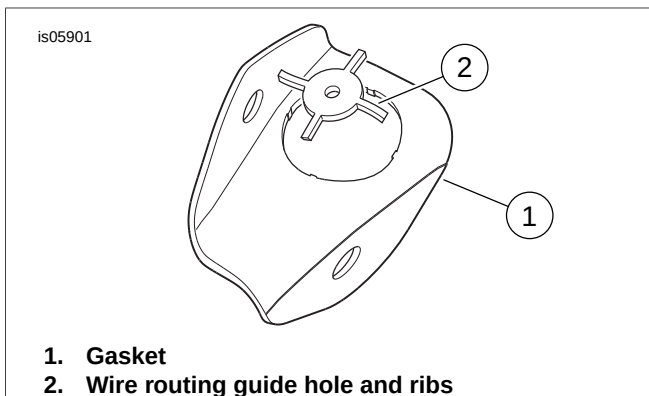


Figure 2. Remove Gasket Ribs and Guide Hole

10. See Figure 2. Remove the wire routing guide hole and four ribs (2) from the gasket (1).
11. **Models WITH radio:** Obtain the power harness (F) and audio cable (G) from the Road Tech Zumo GPS System Kit.

Models WITHOUT radio: Obtain the power harness (F) from the Road Tech Zumo GPS System Kit.

12. Insert the round 4-pin DIN connector (O) from the power harness (and the audio cable end **without** the rubber boot, if present) up through the 11/16 inch (17 mm) diameter hole drilled earlier, so the connector (and cable end) are sticking up out of the hole.
13. Install the grommet (7) around the harness (and cable end), and insert the grommet into the hole. Leave approximately 8 inches (200 mm) of the harness (and audio cable) pointing rearward.
14. Install the GPS mount and gasket over the harness (and cable end). Direct the harness (and cable end) through the hole in the mount. Be careful not to pinch the wires.
15. Fasten the GPS mount to the inner fairing with two 1/4-20 screws (4), flat washers (5) and locknuts (6). Tighten to 60-70 **in-lbs** (6.8-7.9 Nm)

Installing the Cradle

1. Obtain the GPS cradle (B) from the Road Tech Zumo GPS System Kit.
2. Position the cradle to the GPS mount (1). Route the power harness (and audio cable end) out through the slot in the bottom of the mount.
3. Insert a flat head screw (3) through one of the holes in the cradle and into the corresponding hole in the GPS mount, but do not fully tighten.
4. Install the remaining three flat head screws. Incrementally tighten the four screws to 14-20 **in-lb** (1.58-2.26 Nm).
5. Plug the round four-pin DIN connector (O) on the Road Tech Zumo power harness (F) into the front of the cradle and fasten securely with the mounting screws (D).

For models WITH radio: Plug the 3.5 mm jack plug on the audio cable into the AUX-IN port on the left side of the GPS cradle under the rubber flap (P).

For models WITHOUT radio: Plug the 3.5 mm jack plug on the earphone extension cable or helmet headset audio cable (purchased separately) into the AUX-IN port on the left side of the GPS cradle under the rubber flap (P).

NOTE

The harness (and audio cable, if so equipped) lengths may need to be adjusted by pulling more harness and cable through the fairing.

Routing and Connecting the Wiring

1. See Figure 3, and the interconnect harness wiring diagram in the service manual.
Proceed according to the availability of the black (1) and orange/white (2) wires of the position lamp circuit [29B] of the vehicle main harness, located near the headlamp:

If the wires of circuit [29B] are unused, and the female tab connectors on the wire ends are intact:

- Remove the tape tying the black (1) and orange/white (2) wires of circuit [29B] to the vehicle main harness.
- See Figure 4. Obtain the male tab terminals (9) and housings (10) from the kit. Follow the service manual instructions to crimp the terminals onto the free ends of the Road Tech Zumo power harness (F). Insert a terminal and wire into each tab housing.
- Connect the red wire/tab housing from the power harness to the orange/white wire and tab housing from the unused circuit [29B].
- connect the black wire/tab housing from the power harness to the black wire/tab housing of circuit [29B]

If the wires of circuit [29B] are already in use:

- Disconnect any existing accessories from connector [29B] of the vehicle main harness.
- See Figure 4. Obtain the multiple accessory Y-harnesses (items Q and R, purchased separately).
- Connect the single-terminal end of each harness to the corresponding color wire terminal on connector [29B].
- Connect all accessories to the two available connectors on each Y-harness.

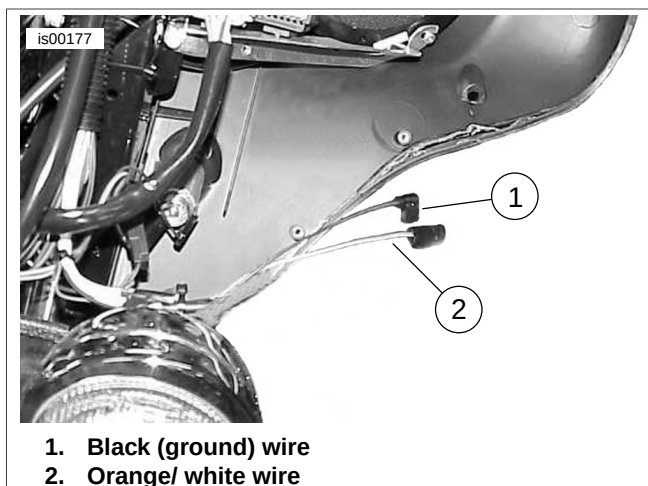


Figure 3. Wires for GPS Connection

- Obtain one of the 2A fuses (11) from the kit (the second is a spare), and open the cover of the fuse holder on the GPS harness. Plug the fuse into the fuse holder, and close the cover.
- For models with radio:** Route the audio cable (G) out of the inner fairing through the hole for the handlebars. Use a clip (12) to retain the cable along the inner fairing.

NOTE

When installing the jack plug to the radio port socket:

- Roll back the outer lip of the rubber seal.
- Install the plug into the AUX port on the front of the radio unit.
- Gently roll the seal back to its original shape to form a seal over the radio unit port.

This will help eliminate "spring-back" of the plug out of the socket.

- Plug the 3.5 mm stereo jack (with rubber boot attached) on the audio cable into the AUX port on the front of the radio.
- Use three cable straps (13) to keep the wires clear of gauges and other items under the fairing.
- ALL models:** Install the Road Tech Zumo GPS unit into the cradle mount per the procedures that follow this section.

NOTE

Verify that the ignition/light key switch is in the OFF position before installing the main fuse.

- Verify that the ignition/light key switch is in the OFF position.
Refer to the service manual and follow the instructions given to install the main fuse.
- Test the Road Tech Zumo unit for proper operation.
- Install the outer fairing and windshield. Refer to the service manual.

ROAD TECH ZUMO UNIT INSTALLATION TO CRADLE MOUNT

- See Figure 5. Obtain the Road Tech Zumo unit (A) from the GPS Kit.
- Flip the lever (M) on the cradle mount (B) up. Flip the weather cap (L) open.
- Position the Road Tech Zumo unit into the cradle mount, and flip the lever (M) down.
- Use the security screwdriver (E) to tighten the security screw (N).
- Plug the 3.5 mm jack plug on the earphone into the earphone extension cable, or the helmet headset audio cable into the AUX-IN port on the left side of the GPS cradle.

ROAD TECH ZUMO UNIT OPERATION

NOTES

Do not use solvent-based chemicals or waxes directly on the plastic or rubber components as they can affect the overall performance and appearance of the plastic and rubber.

Refer to the instructions that came with the Road Tech Zumo.

SERVICE PARTS

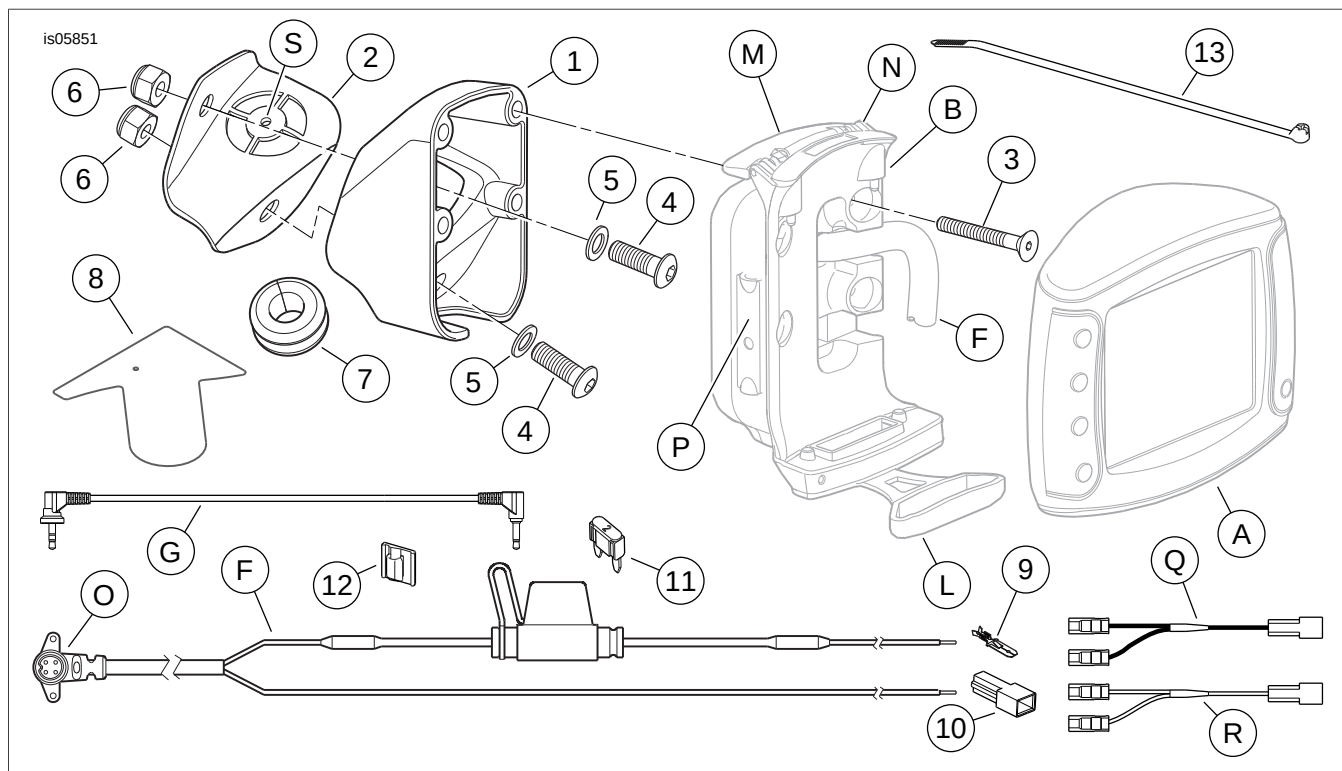


Figure 4. Service Parts, Zumo GPS Fairing Mounting Kit

Table 1. Service Parts, Road Tech Zumo GPS Fairing Mounting Kit

Item	Description (Quantity)	Part Number
1	Fairing mount, Road Tech Zumo	92305-08
2	Gasket, Road Tech Zumo fairing mount	92320-08
3	Screw, hex socket, flat head, #8-32 x 1-1/4 inch (32 mm) long (4)	3098
4	Cap screw, hex socket, button head, 1/4-20 x 3/4 inch (19 mm) long (2)	923
5	Flat washer, 1/4 inch (6.4 mm) ID (4)	6703
6	Hex locknut, 1/4-20 (2)	7686
7	Grommet, split	11667
8	Drilling template	92391-08
9	Tab terminal, male, #14-18 AWG (2)	9853
10	Housing, tab terminal, male, one-way (2)	72053-92
11	Fuse, blade type, 2A (2)	54305-98
12	Clip, adhesive-backed (3)	10271
13	Cable strap (10)	10006

SERVICE PARTS

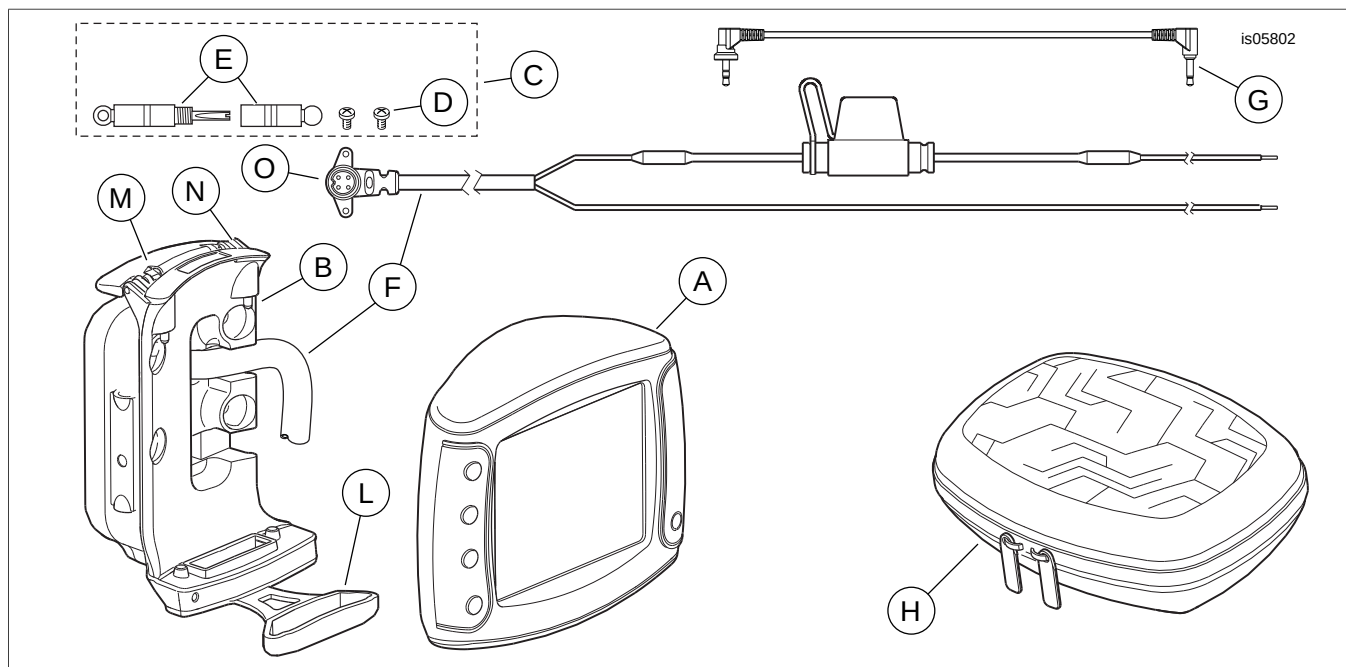


Figure 5. Service Parts, Zumo GPS Unit Kit

Table 2. Service Parts, Road Tech Zumo GPS Kit

Kit	Item	Description (Quantity)	Part Number
Kit 92357-08 Road Tech Zumo GPS (must be purchased separately)	A	Road Tech Zumo unit	Not sold separately
	B	Cradle, Zumo GPS	Not sold separately
	C	Cradle mount service kit (includes items D and E)	92379-08
	D	• Harness screw, M2 x 3.5 mm (2)	See garmin.com
	E	• Screwdriver, security	See garmin.com
	F	Power harness assembly, Road Tech Zumo	See garmin.com
	G	Audio cable	92389-08
	H	Carrying case	92156-08
	I	PCB/USB cable (not shown)	See garmin.com
	J	A/C charger (not shown)	See garmin.com
	K	User's manual, Road Tech Zumo (not shown)	See garmin.com
Reference items mentioned in text:			
	L	Weather cap	
	M	Lever	
	N	Security screw	
	O	Round 4-pin DIN connector on harness (F)	
	P	Rubber flap (on left side of GPS cradle)	
	Q	Harness, multiple accessory (black wires) (separate purchase if needed)	70458-05
	R	Harness, multiple accessory (orange/white wires) (separate purchase if needed)	70458-05
	S	Wire routing guide hole (and ribs) in fairing mount gasket	